

Form PTO-1449

(Rev. 8-83)

U.S. Department of Commerce
Patent and Trademark OfficeATTY. DOCKET NO.
N-7980/P-1022-1

Page 1 of 4

SERIAL NO.
Not Yet Assigned

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT
R. A. Greinke

FILING DATE

GROUP
Not Yet Assigned

JC996 U.S. PTO

10/004716



12/04/01

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CS	3 4 0 4 0 6 1	10/1/68	Shane et al	161	125	
	4 3 5 0 5 7 6	9/21/82	Watanabe et al	204	101	
	4 8 9 5 7 1 3	1/23/90	Greinke et al	423	448	
	5 1 4 9 5 1 8	9/22/92	Mercuri et al	423	449	
	5 1 7 3 5 1 5	12/22/92	Von Bonin et al	521	103	
	5 3 7 6 4 5 0	12/27/94	Greinke et al	428	402	
	5 5 0 3 7 1 7	4/2/96	Kang et al	205	478	
	5 5 8 2 8 1 1	12/10/96	Greinke et al	423	265	
	5 6 9 8 0 8 8	12/16/97	Kang et al	205	555	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
CS	1 1 4 8 8 7 B	8/30/99	Romania	C01	B31/04		X
	2 1 1 8 9 4 1	9/20/98	Russia	C01	B31/04		X
	1 8 1 7 4 3 8	3/27/95	Russia	C01	B31/04		X
	1 5 7 7 2 4 4	3/20/95	Russia	C01	B31/04		X
	0 5 9 6 8 0 1	5/11/94	Europe	C01	B31/00	X	
	5 2 2 1 6 2 4	8/31/93	Japan	C01	B31/04		X
	1 7 6 5 1 1 4	9/30/92	Russia	C01	B31/04		X
	1 6 5 7 4 7 4	6/23/91	Russia	C01	B31/04		X
	2 1 8 8 4 1 8	7/24/90	Japan	C01	B31/04		X
	1 1 6 0 6 0 9	6/23/89	Japan	B28	B3/12		X
	6 3 6 9 7 0 5	3/29/88	Japan	C01	B31/04		X

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609;
Draw line through citation if not in conformance and not considered. Include copy of this form with
next communication to applicant.

Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET NO. N-7980/P-1022-1	SERIAL NO. Not Yet Assigned
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)			APPLICANT R. A. Greinke	GROUP Not Yet Assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
ans			Materials Research Bulletin 35, 2000, pp 425-430; "On Lower-Nitrogen Expandable Graphite", by Song, Kemin, Dun Huijuan.	*
			1999 Joint International Meeting, Honolulu, Hawaii, 10/17-22/99, Meeting Abstracts, Battery Div., "Study of the Lithium Intercalation Process in Mechanically Milled Graphite", Ong & Yang.	
			International Symposium of Carbon, 1998 (Tokyo), "Intercalation and Exfoliation of Graphite at Room Temperature", Mittal & Inagaki.	*
			Tanso 1997, No. 180, pp 239-244, "Preparation of Alkali Metal-Graphite Intercalation Compounds in Tetrahydrofuran Type of Solvents", Mizutani et al.	*
			Carbon Vol. 35, No. 8, pp. 1089-1096, 1997, "Electrochemical Synthesis and Characterization of Formic Acid-Graphite Intercalation Compound", Kang et al.	*
			Inorganic Materials, Vol. 33, No. 6, 1997, pp 584-587, "Synthesis of Intercalation Compounds in the System Graphite HNO ₃ -H ₂ SO ₄ ", Avdeev et al.	*
			Inorganic Materials, Vol. 33, No 6, 1997, pp 580-583, "Intercalation of Sulfuric Acid into Graphite in the Presence of Gaseous Oxidizers and Oleum", Avdeev et al.	*
			Carbon Vol. 35, No. 4, pp 563-566, 1997, "A Novel Type of Reaction in the Chemistry of Graphite Intercalation Compounds. The Preparation of Alkali Metal Graphite Intercalation Compounds by Ion Exchange Reactions", Isaev et al.	*
			Carbon Vol. 35, No. 2, pp 285-290, 1997, "Formation of Iron Chloride-Graphite Intercalation Compounds in Propylene Carbonate by Electrolysis, Zhang et al.	*
			Carbon Vol. 35, No. 1, pp 61-65, 1997, "Graphite Intercalation Compounds Prepared in Solutions of Alkali Metals in 2-Methyltetrahydrofuran and 2, 5-Dimethyltetrahydrofuran", Mizutani et al.	*
			Carbon Vol. 34, No. 12, Letter to the Editor, "Preparation of Lower-Sulfur Content and Expandable Graphite", Chen et al. X no cite	
			Journal Electrochem Society, Vol. 143, No. 11, 1996, "Structure and Lithium Intercalation Properties of Synthetic and Natural Graphite", Shi et al.	*
			The European Carbon Conference "Carbon 96" - Newcastle, UK, July 1996, "Direct Thermochemical Conversion of Graphite to Exfoliated Graphite. The Way to Novel Technologies", Savoskin et al.	
			Journal Phys. Chem Solids, Vol. 57, Nos. 6-8, pp 925-930, 1996, "Ternary Graphite Intercalation Compounds of Type M(NH ₃) _x C _y With M = Be, Mg, Al, Sc, Y, La. Electrochemical Synthesis, Stability and NMR Studies", Stumpp et al.	*
			Journal Phys. Chem Solids, Vol. 57, Nos. 6-8, pp 883-888, 1996, "Electrochemical Synthesis of Sulfate Graphite Intercalation Compounds with Different Electrolyte Concentrations", Kang et al.	*
			Journal Phys. Chem Solids, Vol. 57, Nos. 6-8, pp 783-786, 1996, "Debye-Waller Factors of ICI-Graphite Intercalation Compounds Prepared From Natural Graphite Flakes and Graphitized Polyimide Films, Abe et al.	*
			Carbon '94, 3-8 July 1994, Granada, Spain, Extended Abstracts and Programme, The University of Granada, "Synthesis of FeCl ₃ -GIC-Using Electrochemical Method in an Aqueous Solution", Kang et al.	
			Carbon, Vol. 31, No. 8, 1993, Printed in Great Britain, Letters to the Editor, "Room Temperature Exfoliation of Graphite Under Microgravity".	*
			X Sympozjum Przemyslu Elektrodowego, Extended Abstracts, "Preparation of Flexible Graphite From Czech Natural Graphite" Tomanova et al. X no cite	
			Carbon, Vol. 31, No. 7, pp 1131-1137, 1993, "Intercalation of Perfluorobutanesulfonic Acid in Graphite", Ruisinger et al.	*
			Carbon, Vol. 31, No. 5, pp 777-781, 1993, "Intercalation of AlCl ₃ Into FeCl ₃ -Graphite Intercalation Compounds and Occurrence of Bi-Intercalation", Inagaki et al.	*
EXAMINER Ema Wang			DATE CONSIDERED 8/30/03	
<p>* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>				

Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET NO. N-7980/P-1022-1	SERIAL NO. Not Yet Assigned
INFORMATION DISCLOSURE CITATION			APPLICANT R. A. Greinke	
(Use several sheets if necessary)			FILING DATE	GROUP Not Yet Assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
an			Carbon, Vol. 31, No. 1, pp 201-204, 1993, "Laser-Assisted Exfoliation of Potassium-Ammonia-Graphite Intercalation Compounds", Kuga et al.	*
			American Carbon Society, Twentieth Biennial Conference on Carbon, June 23-28, 1991, Extended Abstracts and Program, "Electrochemical Preparation of Metal-Ammonia Graphite-Intercalation Compounds in Liquid Ammonia", Stumpp et al.	
			American Carbon Society, Twentieth Biennial Conference on Carbon, June 23-28, 1991, Extended Abstracts and Program, "Preparation of New Graphite Intercalation Compounds in Anhydrous Hydrogen Fluoride", Selig et al.	
			Carbon, Vol. 30, No. 2, pp 207-212, 1992, "Intercalation Process in the Ternary System of FeCl ₃ -NiCl ₂ -KCl", Ohira et al.	*
			Carbon, Vol. 29, No. 8, pp 1227-1231, 1991, "Exfoliated Graphite From Various Intercalation Compounds", Yoshida et al.	*
			Carbon, Vol. 29, Nos. 4/5, pp 595-597, 1991, "Upon the Intercalation of Rhenium Heptoxide and Rhenium Trioxide Nitrate into Graphite", Scharff et al.	*
			International Carbon Conference, Paris, 1990, "Study of Dissociation and Exfoliation of Graphite-Nitrate", Petitjean et al.	*
			Carbon, Vol. 28, No. 1, pp 119-123, 1990, "Electrochemical Preparation Of The Graphite Bi-Intercalation Compound With H ₂ SO ₄ And FeCl ₃ ", Shioyama et al.	*
			Synthetic Metals, 34, 1989, 145-150, "The Formation of Graphite Intercalation Compounds From Trichloroacetic Acid and Trichloroacetic Acid Chloride Solutions Containing Molybdenum Compounds", Schulz et al.	*
			Synthetic Metals, 34, 1989, 139-144, "Potential Survey of Intercalation of Sulfuric Acid Into Graphite by Chemical Oxidation, Iwashita et al.	*
			Synthetic Metals, 34, 1989, 73-78, "Preparation of Metal Halide Graphite Intercalation Compounds by Intercalate Exchange, Stump et al.	*
			Synthetic Metals, 26, 1988, 41-47, "Electrochemical Synthesis of Graphite Intercalation Compounds with Nickel and Hydroxides, Inagaki et al.	*
			Synthetic Metals, 25, 1988, 181-187, "Formation of Metal Chloride-Graphite Intercalation Compounds in Molten Salts", Wang et al.	*
			Synthetic Metals, 20, 1987, 9-13, "The Synthesis of NiCl ₂ -FeCl ₃ -Graphite Intercalation Compounds, Inagaki et al.	*
			Synthetic Metals, 20, 1987, 1-8, "Synthesis of Cupric Chloride-Graphite Intercalation Compounds by the Molten Salt Method, Inagaki et al.	*
			Journal of China University of Science and Technology, Vol. 28, No. 2, 1998, "Chemical Preparation and Characterization of Expandable Graphite by H ₂ O ₂ Oxidation", Chen, Zuyao.	*
			Carbon, Vol. 24, No. 6, pp 731-735, 1986, "Etude de L'Exfoliation des Composés D'Insertion Graphite-Trioxys de Soufre", Klatt et al.	*
			Carbon '86, Proceedings, June 30-July 4, 1986, "Studies on the Exfoliation Mechanism of Intercalated Graphite Flakes", Mathur et al.	
			TANSO, No. 123, 1985, pp 160-165, "Preparation of Exfoliated Graphite from Alkaline Metal-Graphite-Tetrahydrofuran-Ternary Compounds", Inagaki et al.	*
			Carbon, Vol. 23, No. 5, p 595, 1995, "Intercalation of Graphite with Antimony Tetrachloride Fluoride".	*
			TANSO, No. 121, 1985, pp 65-69, "Synthesis of Strontium-Graphite Intercalation Compounds", Akuzawa et al.	*
EXAMINER			DATE CONSIDERED	
Edna Wong			8/30/03	
<p>* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>				

* namunth

PTO1449.doc

SERIAL NO.
10/004,716

APPLICANT
Ronald Greinke

FILING DATE
December 4, 2001

GROUP	1753
T74T	

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		YES	NO											
CS		1	1	8	6	7	2	7	4/2/70	Great Britain	—	—	X	
CS		8	2	3	3	9	8		2/11/98	Europe	—	—	X	
										/				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Derwent Abstract 1991-322793 & SU 1609744 A IVANOVSK

RECEIVED
MAR 19 2002
1100

EXAMINER

DATE CONSIDERED

*** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**